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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/678,977	10/03/2003	Dileep Sivasankaran	10030.000210 (GCI-002)	1564	
31894 OK A MOTO &	94 7590 12/20/2007 CAMOTO & BENEDICTO, LLP		EXAMINER		
P.O. BOX 641330 SAN JOSE, CA 95164			FAROUL	FAROUL, FARAH	
			ART UNIT	PAPER NUMBER	
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			MAIL DATE	DELIVERY MODE	
			12/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/678,977	SIVASANKARAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Farah Faroul	2616			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply vill apply and will expire SIX (6) MONTHS , cause the application to become ABANE	FION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) ⊠ Responsive to communication(s) filed on 23 No. 2a) □ This action is FINAL. 2b) ⊠ This 3) □ Since this application is in condition for alloware closed in accordance with the practice under Example 2.	action is non-final. nce except for formal matters	• •			
Disposition of Claims					
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>02 August 2007</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. ion is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	🗖 .				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		mary (PTO-413) ail Date nal Patent Application			

DETAILED ACTION

1. The following Office Action is based on the amendment filed on November 23, 2007, having claims 1-16 and figures 1-3.

Priority

2. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 119 (e) as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See Transco Products, Inc. v. Performance Contracting, Inc., 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed application, Application No. 60/418,896, filed October 15, 2002, fails to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. Accordingly, claims 1-16 are not entitled to the benefit of the prior application.

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Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Malhotra et al. (US 2003/0161275 A1).

For claims 1, 10 and 14, Malhotra discloses detecting a link failure at a port of a switch (paragraphs 18, 28 and 29); and

Clearing all MAC address entries from a MAC address table of the switch in response to the link failure detection and without receiving from outside the switch any signal that signifies that the MAC address table of the switch is to be cleared (paragraph 30, lines 1-9)

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Note: The phrase "link-loss-learn protocol" recited in claims 10, 12, 14 and 16, has been disclosed by applicant to define "upon detecting a link failure at the port of the switch, the MAC address table has been cleared". It is suggested that applicant clearly recite the definition in the claims, each time the phrase is recited, as the phrase is not known in the art.

Claims 2-4 and 7, 11-13, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bare (US 2003/0016624 A1) in view of Malhotra et al. (US 2003/0161275 A1).

For claim 2, 11 and 15, Bare discloses the address table causes discovery process to fill the table to begin immediately (paragraph 377, lines 1-10 wherein a discovery process to fill the table is disclosed)

For claims 3, 12 and 16, discloses momentarily dropping a link on another port of the switch comprises stopping transmission of a link signal for a period of time (paragraph 205 and paragraph 359, lines 1-15 where the link is dropped on another port of the switch)

For claim 4, Bare discloses momentarily dropping the link on the other port causes propagation of the link failure to next switch (paragraph 379, lines 1-11 wherein the link failure is propagated)

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For claim 7, Bare discloses momentarily dropping the link for a length of time sufficient for a next switch to detect the link drop (paragraph 205, lines 1-16 and table 5 wherein the link is dropped for a period of time)

For claims 13 and 14, Bare discloses a multi-port Ethernet switch (paragraph 124, lines 1-7 wherein is disclosed a multi-port Ethernet switch)

For claim 16, Malhotra discloses detecting a link failure at a port of a switch (paragraphs 18, 28 and 29) and clearing all MAC address entries from a MAC address table of the switch in response to the link failure detection and without receiving from outside the switch any signal that signifies that the MAC address table of the switch is to be cleared (paragraph 30, lines 1-9).

5. For claims 8 and 9, Bare and Malhotra disclose the entire claimed invention except for the length of time is no more than fifty milliseconds and under ten milliseconds.

Thus, it would have been obvious to someone of ordinary skill in the art to add the values 50 ms and 10 ms to the time periods of the modified system and Malhotra at the time of the invention. The values are added to the length of time of the modified system of Bare and Malhotra by modifying the time period to detect a link failure. The motivation to substitute these values into the modified system of Bare and Malhotra is that it provides a fault recovery mechanism.

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6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bare (US 2003/0016624 A1) in view of Malhotra (US 2003/0161275 A1) and further in view of Eisen et al. (US 2002/0129226 A1).

For claim 5, Bare discloses overwriting each entry in the table (event 12 in figure 7 wherein an entry in the table is overwritten)

For claim 5, Bare disclose the entire claimed invention except overwriting with a template register.

Eisen, from the same or similar field of endeavor, teaches overwriting with a template register (paragraph 45, lines 1-20).

Thus, it would have been obvious to someone of ordinary skill in the art to combine the overwriting method of Eisen with the modified system of Bare and Malhotra at the time of the invention. The overwriting method of Eisen is implemented into the modified system of Bare and Malhotra by using a register to overwrite the entry in the table. The motivation to combine the overwriting method of Eisen with the modified system of Bare and Malhotra is that it provides a fault recovery mechanism.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bare (US 2003/0016624 A1) in view of Malhotra (US 2003/0161275 A1) and further in view of Tanoue (US 2003/0002462 A1).

For claim 6, Bare and Malhotra disclose the entire claimed invention except momentarily turning off power within the switch.

Tanoue, from the same or similar field of endeavor, teaches turning off a power within a device (paragraph 9, lines 12-32).

Thus, it would have been obvious to someone of ordinary skill in the art to combine the switch architecture of Tanoue with the modified system of Bare and Malhotra at the time of the invention. The turn-off power feature as taught by Tanoue is implemented into the modified system of Bare and Malhotra by turning off power within the switch temporarily while clearing the forwarding table. The motivation to combine the switch architecture of Tanoue into the modified system of Bare and Malhotra is that it provides a fault recovery mechanism.

Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are 8. moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the 9. examiner should be directed to Farah Faroul whose telephone number is 571-270-1421. The examiner can normally be reached on Monday - Friday 6:30 AM - 4 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Farah Faroul Patent Examiner Art Unit 2616 SUPPRISORY PATENT EXAMINER